CIVIL QUALITY CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/AKHB/02/2023-24 Date: 23.10.2023

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.
Name of Work : Construction of CC Road at Herohalli Village in Chowdeshwari Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore
Sample : :Cement (Dalmia 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: : September - 2023
Date of Testing : 21.10.2023 to 23.10.2023

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	380 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00%	-

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Job No.: CQCE/BBMP/AKHB/02/2023-24

Date : 23.10.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of Work : Construction of CC Road at Herohalli Village in Chowdeshwari Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore

Date of Testing : 23.10.2023

Material : Sand(Masonry)

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	15	1.50	1.50	98.5	90-100
1.18	37	3.70	5.20	94.8	70-100
600 Micron	82	8.20	13.40	86.6	40-100
300 Micron	274	27.40	40.80	59.2	5-70
150 Micron	496	49.60	90.40	9.6	0-15

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Date : 23.10.2023

Job No.: CQCE/BBMP/AKHB/02/2023-24

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.
Name of Work : Construction of CC Road at Herohalli Village in Chowdeshwari Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore

Steel Dia/Length : 8mm,10mm,12mm" TMT"
Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 23.10.2023

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.397	516	611	1.18	15
2	TMT	10	0.616	524	622	1.19	18
3	TMT	12	0.889	536	621	1.16	17

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Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Job No.: CQCE/BBMP/AKHB/02/2023-24 Date: 01.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of the work : Construction of CC Road at Herohalli Village in Chowdeshwari Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.10.2023	01.11.2023	8.039	372.8	16.57
2	25.10.2023	01.11.2023	8.141	383.4	17.04
3	25.10.2023	01.11.2023	8.071	392.7	17.45

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Job No.: CQCE/BBMP/AKHB/02/2023-24

Date: 02.11.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. Akshay Kumar H B(Akshay Constructios),** Contractor, Bangalore.

Name of the work : Construction of CC Road at Herohalli Village in Chowdeshwari Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.10.2023	02.11.2023	8.140	516.4	22.95
2	26.10.2023	02.11.2023	8.118	524.8	23.32
3	26.10.2023	02.11.2023	8.188	538.6	23.94

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